

FILEID**PLIREWRIT

I 15

PL
1-

PPPPPPPP	LL	IIIIII	RRRRRRRR	EEEEEEEEE	WW	WW	RRRRRRRR	IIIIII	TTTTTTTTTT
PPPPPPPP	LL	IIIIII	RRRRRRRR	EEEEEEEEE	WW	WW	RRRRRRRR	IIIIII	TTTTTTTTTT
PP	PP	II	RR	RR	EE	WW	WW	RR	RR
PP	PP	II	RR	RR	EE	WW	WW	RR	RR
PP	PP	II	RR	RR	EE	WW	WW	RR	RR
PP	PP	II	RR	RR	EE	WW	WW	RR	RR
PPPPPPPP	LL	II	RRRRRRRR	EEEEEEEEE	WW	WW	RRRRRRRR	II	TT
PPPPPPPP	LL	II	RRRRRRRR	EEEEEEEEE	WW	WW	RRRRRRRR	II	TT
PP	LL	II	RR	RR	EE	WW	WW	RR	RR
PP	LL	II	RR	RR	EE	WW	WW	RR	RR
PP	LL	II	RR	RR	EE	WWWW	WWWW	RR	RR
PP	LL	II	RR	RR	EE	WWWW	WWWW	RR	RR
PP	LLLLLLLL	IIIIII	RR	RR	EEEEEEEEE	WW	WW	RR	RR
PP	LLLLLLLL	IIIIII	RR	RR	EEEEEEEEE	WW	WW	RR	RR
LL	IIIIII	SSSSSSSS	SSSSSSSS						
LL	II	SS	SS						
LL	II	SS	SS						
LL	II	SS	SS						
LL	II	SS	SS						
LL	II	SS	SS						
LL	II	SS	SS						
LL	II	SS	SS						
LL	II	SS	SS						
LLLLLLLL	IIIIII	SSSSSSSS	SSSSSSSS						
LLLLLLLL	IIIIII	SSSSSSSS	SSSSSSSS						

```
0000 1 :title pli$rewrite - pl1 runtime rewrite file
0000 2 :ident /1-003/ ; Edit DSB1003
0000 3
0000 4
0000 5 ****
0000 6 *
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0000 24 *
0000 25 *
0000 26 ****
0000 27 :
0000 28
0000 29
0000 30 :++
0000 31 facility:
0000 32
0000 33 VAX/VMS PL1 runtime library.
0000 34 abstract:
0000 35
0000 36 This module contains the pl1 runtime routine for rewriting a record to
0000 37 a file.
0000 38
0000 39 author: c. spitz 18-jul-79
0000 40
0000 41 modified:
0000 42
0000 43
0000 44 1-002 Bill Matthews 29-September-1982
0000 45
0000 46 Invoke macros $defdat and rtshare instead of $defopr and share.
0000 47
0000 48 1-003 Dave Blickstein 21-February-1984
0000 49
0000 50 Do a $FIND if RECORD_ID was specified. RECORD_ID was
0000 51 being "ignored" because RMS does not allow it for $UPDATE.
0000 52
0000 53 --
0000 54
0000 55
0000 56 :+
0000 57 ; external definitions
```

```
0000 58 ;-
0000 59
0000 60      $deffcb
0000 61      $defdat
0000 62      $defpl1rtcons
0000 63      $rabdef
0000 64      $fabdef
0000 65      $rmsdef
0000 66
0000 67 ;+
0000 68 ; local definitions
0000 69 ;-
0000 70 $offset 4,positive,<-
0000 71      <fcbaddr,4>,-
0000 72      <fromaddr,4>,-
0000 73      <fromlen,2>,-
0000 74      <fromtyp,2>,-
0000 75      <keyaddr,4>,-
0000 76      <keylen,4>,-
0000 77      <keytyp,4>,-
0000 78      <keynum,4>,-
0000 79      <matchgtr,4>,-
0000 80      <matchgeq,4>,-
0000 81      <recidfrom,4>,-
0000 82      <recidto,4>,-
0000 83      <fxcaddr,4>,-
0000 84      <fxclen,2>,-
0000 85      <fxctyp,2>,-
0000 86      >
0000 87
0000 88      rtshare
0000 89
```

;define file control block offsets
;define operand node data types
;define pl1 runtime constants
;define rab offsets
;define fab offsets
;define rms error codes

;define arguments
;addr of fcb
;addr of from
;length of from
;data type of from
;addr of key
;length of key
;data type of key
;addr of key number
;addr of match greater
;addr of match greater equal
;addr of record id from
;addr of record id to
;addr of fixed control
;length of fixed control
;data type of fixed control

;

;sharable

```

0000  91
0000  92: ++
0000  93: pli$rewrite -- rewrite a record to a file
0000  94:
0000  95: functional description:
0000  96:
0000  97: This routine rewrites a record to a pl1 file.
0000  98:
0000  99: inputs:
0000 100:     (ap) - number of arguments
0000 101:         1 if no from, no key and no options
0000 102:         3 if from, no key and no options
0000 103:         6 if from, key, and no options
0000 104:         13 if any options
0000 105:     4(ap) - addr of fcb
0000 106:     8(ap) - addr of from
0000 107:     12(ap) - word length of from
0000 108:     14(ap) - word data type of from
0000 109:     16(ap) - addr of key
0000 110:     20(ap) - size/prec of key
0000 111:     24(ap) - data type of key
0000 112:     28(ap) - addr of key number
0000 113:     32(ap) - addr of match greater
0000 114:     36(ap) - addr of match greater
0000 115:     40(ap) - addr of record id from
0000 116:     44(ap) - addr of record id to
0000 117:     48(ap) - addr of fixed control
0000 118:     52(ap) - length of fixed control
0000 119:     54(ap) - data type of fixed control
0000 120:
0000 121: outputs:
0000 122:     fcb_l_attr
0000 123:         atr_m_bfall, atr_m_delete, atr_m_virgin and atr_m_write are set
0000 124:             to false
0000 125:         atr_m_currec is set true
0000 126:         fcb_q_rfa is set to the rfa of the record that was rewritten
0000 127:
0000 128: side effects:
0000 129:     the record is rewritten in the file.
0000 130:
0000 131: --
0000 132:
007C 0000 133: .entry pli$rewrite,^m<r2,r3,r4,r5,r6>
0002 134:
0002 135: check arguments
0002 136:
01  6C  D1 0002 137: cmpl    (ap),#1          ;enough arguments?
14  13  0005 138: beql    10$          ;if eql, yes
03  6C  D1 0007 139: cmpl    (ap),#3          ;correct number of args?
0F  13  000A 140: beql    10$          ;if eql, no
06  6C  D1 000C 141: cmpl    (ap),#6          ;correct number?
0A  13  000F 142: beql    10$          ;if eql, yes, cont
0D  6C  D1 0011 143: cmpl    (ap),#13         ;correct number?
05  13  0014 144: beql    10$          ;if neq, no
50  D4  0016 145: clrl    r0          ;indicate not enough parms
01CC 31  0018 146: brw     fail         ;and fail
52  04  AC  001B 147 10$: movl    fcbaddr(ap),r2      ;get address of fcb

```

53 0C A2 D0 001F 148: movl fcb_l_attr(r2),r3 ;get attributes
 0023 149: ;
 0023 150: ; open the file if necessary. it will be opened with record and update.
 0023 151: ; if the file is still closed after calling open, the error condition is
 0023 152: ; signaled.
 0023 153:
 21 53 01 E0 0023 154: bbs #atr_v_opened,r3,30\$;if file opened, continue
 00001010 8F DD 0027 155: pushl #atr_m_record!atr_m_update ;file must have record and update
 00000000'GF 52 DD 002D 156 20\$: pushl r2 ;push address of fcb
 53 0C A2 DD 002F 157: calls #2,g^pli\$open ;open the file
 0A 53 01 E0 0036 158: movl fcb_l_attr(r2),r3 ;get attributes
 50 00000000'8F DD 003A 159: bbs #atr_v_opened,r3,30\$;if file opened, continue
 0197 31 003E 160: movl #pli\$_open,r0 ;set open failure
 0045 161: brw fail ;and fail
 0048 162:
 0048 163: ; check standard attributes of file. record and update must be present.
 0048 164: ; delete must be absent.
 0048 165:
 50 0A 53 0C E0 0048 166 30\$: bbs #atr_v_record,r3,40\$;if file has record, continue
 00000000'8F DD 004C 167: movl #pli\$_notrec,r0 ;set not record file
 0191 31 0053 168: brw fail ;and fail
 50 0A 53 04 E0 0056 169 40\$: bbs #atr_v_update,r3,5000\$;if file doesn't have update
 00000000'8F DD 005A 170: movl #pli\$_notupdate,r0 ;set not update file
 0183 31 0061 171: brw fail ;and fail
 0064 172:
 0064 173: ; process options
 0064 174:
 04 A4 54 62 A2 9E 0064 175 5000\$: movab fcb_b_rab(r2),r4 ;get address of rab
 2C A4 D4 0068 176: clrl rab\$1_rhb(r4) ;assume no fixed control from
 00600000 8F CA 0068 177: bicl #<rab\$1_kge!rab\$1_kgt>,rab\$1_rop(r4) ;clear kge and kgt
 0D 6C D1 0073 178: cmpl (ap),#13 ;options passed?
 40 19 0076 179: blss 60\$;if lss, no
 50 30 AC 9E 0078 180: ; fixed control
 00000000'GF 16 007C 181: movab fxcaddr(ap),r0 ;get addr of fixed control
 0082 182: jsb g^pli\$fxdctlfrom ;process fixed control
 50 1C AC D0 0082 183: ; key number
 51 10 AC D0 0086 184: movl keynum(ap),r0 ;get addr of key num
 00000000'GF 16 008A 185: movl keyaddr(ap),r1 ;get addr of key
 0090 186: jsb g^pli\$keynum ;process keynumber
 50 20 AC D0 0090 187: ; match greater
 00000000'GF 16 0094 188: movl matchgtr(ap),r0 ;get addr of match greater
 009A 189: jsb g^pli\$matchgtr ;process match greater
 50 24 AC D0 009A 190: ; match greater equal
 00000000'GF 16 009E 191: movl matchgeq(ap),r0 ;get addr of match greater equal
 00A4 192: jsb g^pli\$matchgeq ;process match greater equal
 50 2C AC D0 00A4 193: ; record id to
 00000000'GF 16 00A8 194: movl recidto(ap),r0 ;get addr of record id to
 00AE 195: jsb g^pli\$valrecidto ;validate record id to
 50 28 AC D0 00AE 196: ; record id from
 00000000'GF 16 00B2 197: movl recidfrom(ap),r0 ;get addr of record id from
 0088 198: jsb g^pli\$recidfrom ;process record id from
 0088 199:
 0088 200: ; if from option is not present, try to use allocated buffer.
 0088 201:
 01 6C D1 0088 202 60\$: cmpl (ap),#1 ;from specified?
 24 14 0088 203: bgtr 90\$;if gtr, then maybe
 0A 53 11 E0 00BD 204 70\$: bbs #atr_v_bfall,r3,80\$;if buffer not allocated

50	00000000'8F	D0	00C1	205	75\$:	movl	#pli\$_nofrom,r0	;set no from specified
	011C	31	00C8	206		brw	fail	;and fail
06	6C	D1	00CB	207	80\$:	cmpl	(ap),#6	;key specified?
05	19	00CE	208			blss	85\$;if lss, no, cont
10	AC	D5	00D0	209		tstl	keyaddr(ap)	;key specified?
	EC	12	00D3	210		bneq	75\$;if neq, yes, fail, it requires from
28	A4	14	A2	211	85\$:	movl	fcb_l_buf(r2),rab\$1_rbf(r4)	;copy address of buffer
22	A4	1C	A2	212		movw	fcb_l_buf_pt(r2),ra\$Sw_rsz(r4)	;copy size of buffer to rab
	65	11	00DF	213		brb	120\$;cont
			00E1	214	:			
			00E1	215	:			
			00E1	216	:			
28	A4	08	AC	217	90\$:	movl	fromaddr(ap),rab\$1_rbf(r4)	;copy address of buffer
	D5	13	00E6	218		beql	70\$;if eql, then not specified
00000000'GF	0C	AC	DD	219		pushl	fromlen(ap)	;push size and data type of from ref
	01	FB	00EB	220		calls	#1,g^pli\$bytesize	;get byte size
03	50	E8	00F2	221		blbs	r0,95\$;if invalid data type
	00EF	31	00F5	222		brw	fail	;then fail
22	A4	51	B0	223	95\$:	movw	r1,rab\$w_rsz(r4)	;set size in rab
0E	AC	08	B1	224		cmpw	#dat_k_char_var,fromtyp(ap)	;if from is char var
	13	12	0100	225		bneq	100\$;then
OB	53	0D	E0	226		bbs	#atr_v_scalvar,r3,96\$;if scalar varying set, write it all
22	A4	08	BC	227		movw	afromaddr(ap),rab\$w_rsz(r4)	;set current size
28	A4	02	C0	228		addl	#2,rab\$1_rbf(r4)	;bump address so we don't write length
		04	11	229		brb	100\$;cont
22	A4	02	A0	230	96\$:	addw	#2,rab\$w_rsz(r4)	;include size of vcha
		0115	231		:			
		0115	232	:				
		0115	233	:				
06	6C	D1	0115	234	100\$:	cmpl	(ap),#6	;key specified?
	2C	19	0118	235		blss	120\$;if lss, then no, continue
50	10	AC	D0	236		movl	keyaddr(ap),r0	;copy address of key
	26	13	011A	237		beql	120\$;if eql, then no key
50	0A	53	08	238		bbs	#atr_v_keyed,r3,110\$;if file is keyed, continue
	0089	31	0120	239		movl	#pli\$_notkeyd,r0	;set not keyed file
50	10	AC	9E	240		brw	fail	;and fail
00000000'GF	16	0124	241	110\$:		movab	keyaddr(ap),r0	;point to key descr
5A	008C	C2	05	242		jsb	g^pli\$readkey,r6	;process key
00000000'GF	16	0132	243			bbs	#fab\$v_bio,<fc\$B_b_fab+fab\$b_fac>(r2),160\$;if blockio, cont
	52	11	0138	244		jsb	g^pli\$smallget	;find the record
		0144	245			brb	160\$;cont
		0146	246		:			
		0146	247	:				
		0146	248	:				
		0146	249	:				
0D	6C	D1	0146	250	120\$:	cmpl	(ap),#13	;options passed?
	05	19	0149	251		blss	125\$;if lss, no, cont
28	AC	D5	014B	252		tstl	recidfrom(ap)	;record id from specified?
	38	12	014E	253		bneq	140\$;if neq, yes, cont
50	0A	53	0A	254	125\$:	bbs	#atr_v_seql,r3,130\$;if seql file, continue
	0089	31	0150	255		movl	#pli\$_notsql,r0	;set not sequential file
05	008C	C2	05	256		brw	fail	;and fail
38	A2	E1	0154	257	130\$:	bbc	#fab\$v_bio,<fc\$B_b_fab+fab\$b_fac>(r2),135\$;if block io
	38	A2	015E	258		clrl	rab\$1_5kt(r2)	;set for seql write
	2F	11	0164	259		brb	160\$;cont
50	0A	53	13	260	135\$:	bbc	#atr_v_delete,r3,137\$;if file has delete
	00000000'8F	D0	0169	261	136\$:	movl	#pli\$_nocurrec,r0	;set no current record

19 53 0070	31 0174	262	brw	fail	and fail
1E A4 12	E1 0177	263	bbc	#atr_v_currec,r3,150\$;if current record not correct
1E A4 02	90 017B	264	movb	#rab\$C_rfa,rab\$B_rac(r4)	;set for rfa access
10 A4 20 A2	7D 017F	265	movq	fcb_q_rfa(r2) rab\$W_rfa(r4)	;set rfa in rab
E5 53 19	E0 0184	266	bbs	#atr_v_virgin,r3,138\$;if file just opened, fail
21 50	0188	267	\$find	r4	;find the pl1 current record
1E A4 00	E9 0191	268	blbc	r0,170\$;if find failed, then fail
	90 0194	269	molb	#rab\$C_seq,rab\$B_rac(r4)	;set sequential access in rab
	0198	270			
	0198	271		;	update record.
	0198	272			
0B 608C C2 05	E1 0198	273	bbc	#fab\$V_bio,<fcb_b_fab+fab\$B_fac>(r2),161\$;if block io
	019E	274	\$write	r4	;do a write
09	11 01A7	275	brb	165\$;cont
	01A9	276	\$update	r4	;update the record
50 0A 50	E8 01B2	277	blbs	r0,180\$;if lbs, continue
00000000'8F	D0 01B5	278	movl	#pli\$_rmsr,r0	;set error code
0028	31 01BC	279	brw	fail	;and fail
0C A2 021A0000 8F	CA 01BF	280	bicl	#<atr_m_bfall!atr_m_delete! - : 'deallocate' buffer, clear del,	
	01C7	281		atr_m_virgin!atr_m_write>,fcb_l_attr(r2)	;virgin and write
0C A2 00040000 8F	C8 C1C7	282	bisl	#atr_m_currec,fcb_l_attr(r2)	;set current record not correct
20 A2 10 A4	7D 01CF	283	mcva	rab\$W_rfa(r4),fcb_q_rfa(r2)	;save correct current record's rfa
0D 6C	D1 01D4	284	cmpl	(ap),#13	;options passed?
0A	19 01D7	285	blss	185\$;if lss, no
50 2C AC	D0 01D9	286	movl	recidto(ap),r0	;get addr of recid to
04	13 01DD	287	beql	185\$;if eql, not specified
60 10 A4	7D 01DF	288	movq	rab\$W_rfa(r4),(r0)	;set recid to
50 01	D0 01E3	289	movl	#1,r0	;set success
	04 01E6	290			;return
	01E7	291	ret		

```

50 00000000'8F 12 01E7 293 01E7 294 fail: bneq 10$ ;if neq, then enough parms, continue
      52 D0 01E9 295 movl #plis_parm,r0 ;set not enough parms
      01 D4 01F0 296 clrl r2 ;assume no fcb specified
      32 19 01F2 297 cmpl (ap),#1 ;was there a fcb specified?
      52 04 AC D0 01F7 299 movl fcbaaddr(ap),r2 ;if lss, then no
      50 00000000'8F D1 01FB 300 10$: cmpl #plis_rmsr,r0 ;get address of fcb
      25 12 0202 301 bneq 40$ ;rms rab error code?
      0C 12 0204 302 cmpl #rms_eof,rab$1_sts(r4) ;if neq, then no, raise error
      52 DD 020C 303 bneq 20$ ;end of file?
      50 DD 020E 304 pushl r2 ;if neq, then no
      50 DD 0210 305 pushl r0 ;set fcb addr
      00000000'8F DD 0212 306 pushl #plis_endfile ;set error code
      19 11 0218 307 brb 50$ ;raise endfile condition
      06 6C D1 021A 308 20$: cmpl (ap),#6 ;continue
      0A 19 021D 309 blss 40$ ;key specified?
      53 10 AC 9E 021F 310 movab keyaddr(ap),r3 ;if lss, no, cont
      00000000'GF 16 0223 311 jsb g^plisschk_keycnd ;set addr of key descr for onkey
      52 DD 0229 312 40$: pushl r2 ;check for key condition
      50 DD 022B 313 pushl r0 ;set fcb addr
      00000000'8F DD 022D 314 pushl #plis_error ;set error code
      00000000'GF 03 FB 0233 315 50$: calls #3,g^plisio_error ;set error condition
      04 023A 316 ret ;signal the condition
      023B 317
      023B 318
      023B 319 .end ;return

```

SS.TMP1	= 00000001	FROMLEN	0000000C
SS.TMP2	= 00000054	FROMTYP	0000000E
ATR_M_BFALL	= 00020000	FXCADDR	00000030
ATR_M_CURREC	= 00040000	FXCLEN	00000034
ATR_M_DELETE	= 00080000	FXCTYP	00000036
ATR_M_RECORD	= 00001000	KEYADDR	00000010
ATR_M_UPDATE	= 00000010	KEYLEN	00000014
ATR_M_VIRGIN	= 02000000	KEYNUM	0000001C
ATR_M_WRITE	= 00100000	KEYTYP	00000018
ATR_V_BFALL	= 00000011	MATCHGEQ	00000024
ATR_V_CURREC	= 00000012	MATCHGTR	00000020
ATR_V_DELETE	= 00000013	PLISSBYTESIZE	***** X 02
ATR_V_KEYED	= 00000008	PLISSCHK KEYCND	***** X 02
ATR_V_OPENED	= 00000001	PLISSFXDCTLFROM	***** X 02
ATR_V_RECORD	= 0000000C	PLISSKEYNUM	***** X 02
ATR_V_SCALVAR	= 0000000D	PLISSMATCHGEQ	***** X 02
ATR_V_SQL	= 0000000A	PLISSMATCHGTR	***** X 02
ATR_V_UPDATE	= 00000004	PLISSREADKEY R6	***** X 02
ATR_V_VIRGIN	= 00000019	PLISSRECIDFROM	***** X 02
DAT_K_CHAR_VAR	= 00000008	PLISSSMALLGET	***** X 02
DIR..	= 00000001	PLISSVALRECIDTO	***** X 02
FAB\$B_FAC	= 00000016	PLISIG ERROR	***** X 02
FAB\$V_BIO	= 00000005	PLISOPEN	***** X 02
FAIL	000001E7 R 02	PLISREWRITE	00000000 RG 02
FCBADDR	00000004	PLIS-ENDFILE	***** X 02
FCB_B_ENVIR	000001C2	PLIS-ERROR	***** X 02
FCB_B_ESA	0000012E	PLIS-NOCURREC	***** X 02
FCB_B_EXTRA	0000003D	PLIS-NOFROM	***** X 02
FCB_B_FAB	000000A6	PLIS-NOTKEYD	***** X 02
FCB_B_IDENT	00000040	PLIS-NOTREC	***** X 02
FCB_B_IDENT_NAM	00000042	PLIS-NOTSQL	***** X 02
FCB_B_NAM	000000F6	PLIS-NOTUPDATE	***** X 02
FCB_B_NUMKCBS	0000003C	PLIS-OPEN	***** X 02
FCB_B_RAB	00000062	PLIS-PARM	***** X 02
FCB_C_LEN	000001C2	PLIS-RMSR	***** X 02
FCB_C_STRLEN	00000034	RAB\$B_RAC	= 0000001E
FCB_L_ATTR	0000000C	RAB\$C-RFA	= 0C000002
FCB_L_BUF	00000014	RAB\$C-SEQ	= 00000000
FCB_L_BUF-END	00000018	RAB\$L-BKT	= 00000038
FCB_L_BUF-PT	0000001C	RAB\$L-RBF	= 00000028
FCB_L_CNDADDR	000001B2	RAB\$L-RHB	= 0000002C
FCB_L_CONDIT	000001AE	RAB\$L-ROP	= 00000004
FCB_L_DTR	00000010	RAB\$L-STS	= 00000008
FCB_L_ERROR	00000008	RAB\$M-KGE	= 00200000
FCB_L_KCB	00000038	RAB\$M-KGT	= 00400000
FCB_L_NEXT	00000000	RAB\$W-RFA	= 00000010
FCB_L_PREVIOUS	00000004	RAB\$W-RSZ	= 00000022
FCB_L_PRN	00000034	RECIDFROM	= 00000028
FCB_Q_RFA	00000020	RECIDTO	= 0000002C
FCB_W_COLUMN	0000002E	RMSS-EOF	= 0001827A
FCB_W_IDENT_LEN	00000040	SIZ	= 00000001
FCB_W_LINE	00000030	SYSSFIND	***** GX 02
FCB_W_LINESIZE	0000002A	SYSSUPDATE	***** GX 02
FCB_W_PAGE	00000032	SYSSWRITE	***** GX 02
FCB_W_PAGESIZE	0000002C		
FCB_W_REVISION	00000028		
FROMADDR	00000008		

```
+-----+
! Psect synopsis !
+-----+
```

PSECT name

	Allocation	PSECT No.	Attributes
: ABS .	00000000 (0.) 00 (0.)	NOPIC USR CON	ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	000001C2 (450.) 01 (1.)	NOPIC USR CON	ABS LCL NOSHR EXE RD WRT NOVEC BYTE
_PLI\$CODE	00000238 (571.) 02 (2.)	PIC USR CON	REL LCL SHR EXE RD NOWRT NOVEC LONG

```
+-----+
! Performance indicators !
+-----+
```

Phase

Phase	Page faults	CPU Time	Elapsed Time
Initialization	21	00:00:00.08	00:00:00.51
Command processing	86	00:00:00.56	00:00:01.73
Pass 1	204	00:00:07.75	00:00:16.69
Symbol table sort	0	00:00:00.81	00:00:01.39
Pass 2	63	00:00:01.48	00:00:02.96
Symbol table output	12	00:00:00.09	00:00:00.29
Psect synopsis output	2	00:00:00.01	00:00:00.22
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	388	00:00:10.79	00:00:23.80

The working set limit was 1050 pages.

41924 bytes (82 pages) of virtual memory were used to buffer the intermediate code.

There were 40 pages of symbol table space allocated to hold 710 non-local and 33 local symbols.

319 source lines were read in Pass 1, producing 14 object records in Pass 2.

23 pages of virtual memory were used to define 20 macros.

```
+-----+
! Macro library statistics !
+-----+
```

Macro library name

Macros defined

\$255\$DUA28:[PLIRTL.OBJ]PLIRTMAC.MLB:1	6
\$255\$DUA28:[SYSLIB]STARLET.MLB:2	11
TOTALS (all libraries)	17

805 GETS were required to define 17 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=TRACEBACK/LIS=LIS\$:PLIREWRIT/OBJ=OBJ\$:PLIREWRIT MSRC\$:PLIREWRIT/UPDATE=(ENHS:PLIREWRIT)+LIBS:PLIRTM

0308 AH-BT13A-SE
VAX/VMS V4.0

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